

DEPARTMENT OF THE NAVY  
FY 1997 BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES  
MARCH 1996

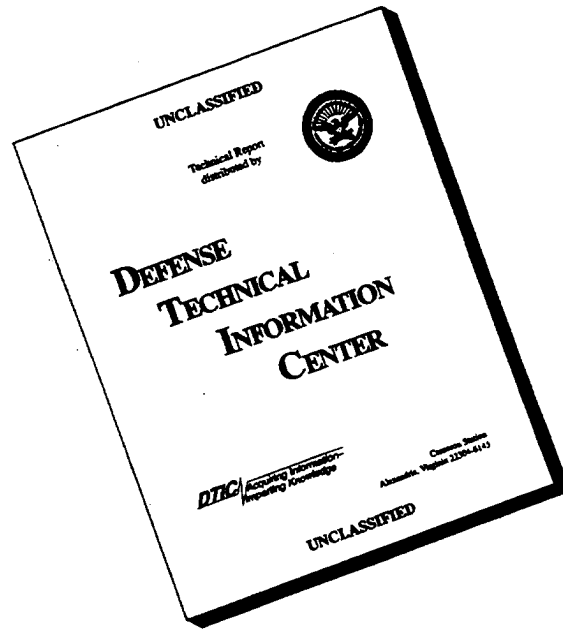
WEAPONS PROCUREMENT, NAVY  
BUDGET ACTIVITY 5

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## UNCLASSIFIED

Department of the Navy

FY 1997 Procurement Program

Exhibit P-1

APPROPRIATION: 1507N Weapons Procurement, Navy

DATE: 03/06/96

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1997 UNIT COST	MILLIONS OF DOLLARS				S E C
				QUANTITY	COST	QUANTITY	COST	
BUDGET ACTIVITY 05: Ammunition								
Air Launched Ordnance								
36	5145 General Purpose Bombs	A						27.2 U
37	5150 2.75 Inch Rockets	A						9.4 U
38	5155 Machine Gun Ammunition	A						5.3 U
39	5160 Practice Bombs	A						11.1 U
40	5180 Cartridges & Cart Actuated Devices	A						21.9 U
41	5181 Aircraft Escape Rockets	A						8.2 U
42	5182 Air Expendable Countermeasures	A						22.0 U
43	5184 Marine Location Markers	A						.6 U
44	5194 JATOS	A						4.2 U
Ship Ordnance								
45	5250 5 Inch/54 Gun Ammunition	A						13.5 U
46	5265 76mm Gun Ammunition	A						2.7 U
47	5270 Other Ship Gun Ammunition	A						4.1 U
Other Ordnance								
48	5335 Small Arms & Landing Party Ammo	A						3.1 U
49	5340 Pyrotechnic and Demolition	A						10.1 U
50	5350 Mine Neutralization Devices	A						5.8 U
TOTAL Ammunition								149.4

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\* ITEMS UNDER \$50,000

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00 MAR 96

Weapons Procurement, Navy  
Program and Financing (in Thousands of dollars)

Identification code	17-1507-0-1-051	Budget Plan (amounts for PROCUREMENT actions programed)				Obligations		
		1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	1997 est.	
Program by activities:								
Direct program:								
00.0101	Ballistic missiles	674,011	505,431	323,149	778,261	546,563	392,923	
00.0201	Other missiles	1,112,710	814,857	738,239	982,919	861,739	738,065	
00.0301	Torpedoes and related equipment	181,003	124,934	110,682	233,456	187,836	116,505	
00.0401	Other weapons	86,880	42,155	31,467	103,503	35,217	33,071	
00.0501	Other Ordnance		149,355		49,320	29,981	120,030	
00.0601	Spare and repair parts	47,855	61,323	47,471	60,353	80,575	49,640	
00.9101	Total direct program	2,102,467	1,548,700	1,400,363	2,207,812	1,741,911	1,450,240	
01.0101	Reimbursable program	55,056	74,800	74,800	33,786	96,070	74,800	
10.0001	Total	2,157,523	1,623,500	1,475,163	2,241,598	1,837,981	1,525,040	
Financing:								
Offsetting collections from:								
11.0001	Federal funds(-)		-74,800	-74,800	-33	-74,800	-74,800	
13.0001	Trust funds(-)	-40,056			-7,577			
14.0001	Non-Federal sources(-)	-15,000			-15,000			
17.0001	Recovery of prior year obligations				-10,842			
21.4002	Unobligated balance available, start of year:							
21.4003	For completion of prior year budget plans		-64,963		-904,672	-702,539	-488,058	
21.4009	Available to finance new budget plans	-74,400			-74,400	-64,963		
22.0001	Reprogramming from/to prior year budget plan	-96,453						
22.0001	Unobligated balance transferred to other acco	9,253	2,500		9,253	2,500		
24.4002	Unobligated balance available, end of year:							
24.4003	For completion of prior year budget plans	64,963			702,539	488,058	438,181	
25.0001	Available to finance subsequent year budget	48,837			64,963			
25.0001	Unobligated balance expiring				48,837			
39.0001	Budget authority	2,054,667	1,486,237	1,400,363	2,054,667	1,486,237	1,400,363	
Budget authority:								
40.0001	Appropriation	2,123,667	1,656,193	1,400,363	2,123,667	1,656,193	1,400,363	
40.3601	Appropriation rescinded (unob bal)		-14,600			-14,600		
41.0001	Transferred to other accounts (-)	-69,000	-185,174		-69,000	-185,174		
42.0001	Transferred from other accounts		29,818			29,818		
43.0001	Appropriation (adjusted)	2,054,667	1,486,237	1,400,363	2,054,667	1,486,237	1,400,363	

003

00 MAR 96

Weapons Procurement, Navy  
Program and Financing (in Thousands of dollars)

Identification code	Budget Plan (amounts for PROCUREMENT actions programmed)			Obligations	
	1995 actual	1996 est.	1997 est.	1995 actual	1996 est.
17-1507-0-1-051					
Relation of obligations to outlays					
71 0001 Obligations incurred				2,218,988	1,763,181
72 1001 Orders on hand, SOY				-124,317	-80,181
72 4001 Obligated balance, start of year				5,376,532	4,183,692
74 1001 Orders on hand, EOY				80,181	
74 4001 Obligated balance, end of year				-4,183,692	-3,220,602
77 0001 Adjustments to expired accounts (net)				10,756	
78 0001 Adjustments to unexpired accounts				-10,842	
90 0001 Outlays (net)				3,367,606	2,646,090
					2,016,844

00 MAR '96

Weapons Procurement, Navy  
Object Classification (in Thousands of dollars)

Identification code	17-1507-0-1-051	1995 actual	1996 est.	1997 est.
Direct obligations:				
125.101	Advisory and assistance services	39,826	32,116	31,477
125.303	Purchases goods/services (inter/intra) Fed accounts	124,311	102,191	93,585
126.001	Purchases from revolving funds	70,316	98,121	77,742
131.001	Supplies and materials	1,973,359	1,509,483	1,247,436
131.001	Equipment	-----	-----	-----
199.001	Total Direct obligations	2,207,812	1,741,911	1,450,240
Reimbursable obligations:				
226.001	Supplies and materials	33,786	42,532	21,900
231.001	Equipment	-----	53,538	52,900
299.001	Total Reimbursable obligations	33,786	96,070	74,800
999.901	Total obligations	2,241,598	1,837,981	1,525,040

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Procurement of Ammunition, Navy & Marine Corps  
Program and Financing (in Thousands of dollars)

00 MAR 96

Identification code	17-1508-0-1-051	Budget plan (amounts for PROCUREMENT actions programmed)			Obligations		
		1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	1997 est.
<b>Program by activities:</b>							
<b>Direct program</b>							
00 0101		274,782	217,183		187,412	227,373	66,557
00 0201		133,164	198,890		122,159	153,374	34,537
00 9101		407,946	416,073		309,571	380,747	101,094
01 0101			10,000				
10 0001		407,946	426,073		309,571	380,747	101,094
<b>Financing:</b>							
<b>Offsetting collections from:</b>							
11 0001			-10,000			-10,000	
21 4002						-98,375	-143,701
21 4003			-6,900			-6,900	
24 4002		6,900			98,375	143,701	42,607
24 4003					6,900		
39 0001		414,846	409,173		414,846	409,173	
<b>Budget authority:</b>							
40 0001		414,846	430,053		414,846	430,053	
41 0001			-20,880			-20,880	
43 0001		414,846	409,173		414,846	409,173	
<b>Relation of obligations to outlays:</b>							
71 0001					309,571	370,747	101,094
72 4001					-111,518	111,518	187,526
74 4001						-187,526	-136,488
90 0001					198,053	294,739	152,132
<b>Outlays (net)</b>							

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Procurement of Ammunition, Navy & Marine Corps  
Object Classification (in Thousands of dollars)

00 MAR 96

Identification code	17-1508-0-1-051	1995 actual	1996 est.	1997 est.
Direct obligations:				
125 103	Purchases goods/services (Inter/Intra) Fed accounts	270,175	331,014	87,024
131 001	Purchases from revolving funds	39,396	49,733	14,070
	Equipment			
199 001	Total Direct obligations	309,571	380,747	101,094
999 901	Total obligations	309,571	380,747	101,094

00 MAR 96

Procurement of Ammunition, Navy & Marine Corps  
(Reacquisition Proposal)

Program and Financing (in Thousands of dollars) SUPPLEMENTAL

Identification code	17-1508-5-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)			Obligations		
		1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	1997 est.
<b>Program by activities:</b>							
10.0001	Total		-10,000		-7,500		-1,500
<b>Financing:</b>							
Unobligated balance available, start of year:							
21.4002	For completion of prior year budget plans						2,500
Unobligated balance available, end of year:							
24.4002	For completion of prior year budget plans				-2,500		-1,000
Budget authority (Appropriation rescinded) (							
40.3501			-10,000		-10,000		
Relation of obligations to outlays:							
71.0001	Obligations incurred				-7,500		-1,500
72.4001	Obligated balance, start of year				2,730		1,830
74.4001	Obligated balance, end of year						
90.0001	Outlays (net)				-4,770		-2,400

Procurement of Ammunition, Navy & Marine Corps  
(Recission Proposal)  
Object Classification (in Thousands of dollars)

00 MAR 96

SUPPLEMENTAL

Identification code	17-1508-5-1-051	1995 actual	1996 est.	1997 est.
Direct obligations:				
131.001 Equipment			-7,500	-1,500
199.001 Total Direct obligations			-7,500	-1,500
999.901 Total obligations			-7,500	-1,500

Comparison of FY 1996 Program Requirements as Reflected  
in the FY 1996 Budget with FY 1996 Program Requirements as  
Shown in FY 1997 Budget (In Thousands of Dollars)

	FY 1996 Total Program Requirements Per FY 1996 Budget	FY 1996 Program Requirements Per FY 1997 Budget	Increase (+) or Decrease (-)
Ballistic Missiles	520,551	505,431	-15,120
Other Missiles	839,753	814,857	-24,896
Torpedoes and Related Equipment	118,684	124,934	+6,250
Other Weapons	43,401	42,155	-1,246
Ammunition	200,710	217,183*	+16,473
Spares and Repair Parts	64,022	61,323	-2,699
Subtotal Direct Program	1,787,121	1,548,700	-238,421
Reimbursable	74,800	74,800	-
Total Fiscal Year	1,861,921	1,623,500	-238,421

1. Ballistic Missiles (-\$15.1 million)  
Decrease reflects Congressional undistributed and inflation reductions (-\$4.2 million) and revised inflation rates and other minor pricing adjustments (-\$10.8 million).
2. Other Missiles (-\$24.9 million)  
Changes include Congressional adjustments to AMRAAM (-\$4.2 million), Tomahawk (-\$41.7 million), Harpoon (+\$40.0 million), Tomahawk Mods (+\$49.3 million) and Weapons Industrial Facilities (+\$30.0 million). A DoD adjustment to the Standard Missile program (-\$104.0 million) also accounts for part of the change. A reprogramming for the Global Broadcast System (+\$59.0 million) was partially offset with funding from Tomahawk (-\$5.2 million), Fleet Satellite Communications (-\$21.0 million), AMRAAM (-\$1.6 million) and Sparrow Mods (-\$1.3 million). Adjustments also include Congressional undistributed general and inflation reductions (-\$7.5 million), revised inflation rates and other minor pricing adjustments (-\$17.5 million) and other minor below threshold reprogrammings.
3. Torpedoes and Related Equipment (+\$6.3 million)  
Changes include a Congressional increase to procure additional Vertical Launch ASROC (+\$10.0 million), adjustments for Congressional undistributed general and inflation reductions (-\$1.0 million) and revised inflation rates and other minor pricing adjustments (-\$2.7 million).
4. Other Weapons (-\$1.2 million)  
Changes include adjustments for Congressional undistributed inflation reductions (-\$.3 million), revised inflation rates and other minor pricing adjustments (-\$.9 million).
5. Ammunition (+\$16.5 million)  
Changes include Congressional increases for additional procurement of Laser Guided Training Rounds (+\$7.8 million), Airborne Expendable Countermeasures (+\$2.0 million), and 5"/54 Gun Ammunition (+\$14.5 million). Adjustments also include a Congressional decrease to General Purpose Bombs (-\$3.1 million) and revised inflation rates and other minor pricing adjustments (-\$4.7 million). \*Funding transferred to Procurement of Ammunition, Navy and Marine Corps appropriation in FY 1997 budget submission.
6. Spares & Repair Parts (\$-2.7 million)  
Changes include adjustments for Congressional undistributed inflation reductions (-\$.5 million), revised inflation rates and other minor pricing adjustments (-\$1.3 million) and minor below threshold reprogrammings (-\$.9 million).

Comparison of FY 1996 Financing as Reflected in the FY 1996 Budget  
with FY 1996 Financing as Shown in FY 1997 Budget  
(In Thousands of Dollars)

	FY 1996 Financing Per FY 1996 Budget	FY 1996 Financing Per FY 1997 Budget	Increase (+) Decrease (-)
Program Requirements (Total)	1,861,921	1,623,500	-238,421
Program Requirements (Direct)	(1,787,121)	(1,548,700)	(-238,421)
Program Requirements (Reimb)	(74,800)	(74,800)	(0)
Less: Anticipated Reimbursements	74,800	74,800	-
Add: Unob bal avail, start of year to finance new budget plans: Unob bal transf to other accts	-	-64,963	-64,963
		2,500	+2,500
Appropriation Adjusted	1,787,121	1,486,237	-300,884
Budget Authority:			
FY 1996 DoD Appropriations Act	1,787,121	1,656,193	-130,928
Appropriation rescinded	-	-14,600	-14,600
Transferred from other accts	-	29,818	+29,818
Transferred to other accounts	-	-185,174	-185,174
Appropriation (Adjusted)	1,787,121	1,486,237	-300,884

Explanation of Changes in Financing

The \$300.9 million change in program financing is the result of the transfer of ammunition funding to the Procurement of Ammunition, Navy and Marine Corps appropriation (-\$200.7 million), reductions for Congressional undistributed general and inflation reductions (-\$16.6 million), revised inflation rates (-\$33.3 million), transfers to other accounts (-\$185.2 million), transfers from other accounts (+\$29.8 million) and various Congressional adjustments to the appropriation during their review of the budget.

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Comparison of FY 1995 Program Requirements as Reflected  
in the FY 1996 Budget with FY 1995 Program  
Requirements as Shown in FY 1997 Budget (In Thousands of Dollars)

	FY 1995 Total Program Requirements Per FY 1996 Budget	FY 1995 Total Program Requirements Per FY 1997 Budget	Increase (+) or Decrease (-)
Ballistic Missiles	674,011	674,011	-
Other Missiles	1,102,436	1,112,718	+10,282
Torpedoes and Related Equipment	183,743	181,003	-2,740
Other Weapons	71,176	86,880	+15,704
Ammunition	279,582*	274,782*	-4,800
Spares and Repair Parts	52,039	47,855	-4,184
Subtotal Direct Program	2,083,405	2,102,467	+14,262
Reimbursable	74,800	55,056	-19,744
Total Fiscal Year	2,158,205	2,157,523	-682

1. Ballistic Missiles  
No change.
2. Other Missiles (+\$10.3 million)  
Change reflects reductions to Tomahawk (-\$4.1 million), AMRAAM (-\$1.1 million), Aerial Targets (-\$2.3 million) and Ordnance Support Equipment (-\$2.0 million) to fund the FY 1995 Ship Cost Adjustment. Adjustments were also made for Congressional rescissions from the Tomahawk (-\$10.0 million), Harpoon (-\$2.4 million) and Ordnance Support Equipment (-\$2.2 million) programs. Of the \$50.7 million offered from the Tomahawk program on the Omnibus Reprogramming to fund emergent requirements, only a reduction of \$12.8 million was approved (Net change +\$37.9 million). Funds were reprogrammed from Drones and Decoys (-\$2.5 million) to the Research, Development, Test and Evaluation appropriation to complete testing of ITALD. Adjustments were also made for minor below threshold reprogramming actions.
3. Torpedoes and Related Equipment (-\$2.7 million)  
Change reflects minor below threshold reprogrammings.
4. Other Weapons (+\$15.7 million)  
Change reflects reprogramming actions for cancelled account adjustments and for prior year deficiencies.
5. Ammunition (-\$4.8 million)  
Change reflects a reprogramming from the Shipboard Expendable Countermeasures program in support of the FY 1995 Ship Cost Adjustment (SCA) (-\$4.8 million). \*Funding in Procurement of Ammunition, Navy and Marine Corps appropriation.
6. Spares & Repair Parts (-\$4.2 million)  
Change reflects minor below threshold reprogrammings.

Comparison of FY 1995 Financing as Reflected in the FY 1996 Budget  
with FY 1995 Financing as Shown in FY 1997 Budget  
(In Thousands of Dollars)

	FY 1995 Financing Per FY 1996 Budget	FY 1995 Financing Per FY 1997 Budget	Increase (+) Decrease (-)
Program Requirements (Total)	2,158,205	2,157,523	-682
Program Requirements (Direct)	(2,083,405)	(2,102,467)	(+19,062)
Program Requirements (Reimb)	(74,800)	(55,056)	(-19,744)
Less: Anticipated Reimbursements	74,800	55,056	-19,744
Add: Unob bal avail, start of year to finance new budget plans	-69,000	-74,400	-5,400
Unob bal avail, end of year to finance subseq yr budget plans		64,963	+64,963
Reprog, prior year budget		-38,363	-38,363
Appropriation Adjusted	2,014,405	2,054,667	+40,262
Budget Authority:			
FY 1995 DoD Appropriations Act	2,159,080	2,123,667	-35,413
Appropriation rescinded			
Reduct Pursuant to P. L. 103-335	-15,160		+15,160
Transferred to other accounts	-129,515	-69,000	+60,515
Appropriation (Adjusted)	2,014,405	2,054,667	+40,262

Explanation of Changes in Financing

The \$40.3 million change in program financing is the result of sources transferred out to finance the FY 1995 Ship Cost Adjustment (-\$9.5 million), Congressional rescissions (-\$14.6 million), the Omnibus Reprogramming action funding emergent DOD requirements and adjustments to reflect actual reimbursements earned.

WPN BUDGET ITEM JUSTIFICATION SHEET						DATE		
APPROPRIATION/BUDGET ACTIVITY						March 1996		
P-1 ITEM NOMENCLATURE								
WPN/B.A. 5 - Ammunition								
General Purpose Bombs (Y1Q2)/(Y5Q2) PEO(T)								
		FY 95*	FY 96*	FY 97	FY 98	FY 99	FY 00	FY 01
Quantity								
Cost (\$M)		55.1	42.1	27.2	12.0	32.5	35.2	34.2
<p>GBU-24/BLU-109: Operation Desert Storm revealed an urgent USN/USMC requirement for a 2000lb moderate to hard target penetrator weapon. Based upon Operational Requirements submitted by the fleet CINCs, a product improvement program was initiated to provide the USAF GBU-24/BLU-109 to the Fleet. The USN version consists of a 2000lb class warhead filled with approximately 535lbs of PBXN-109, a GBU-24 guidance and control unit, an FMU-143E/B tail fuze (with a less IM sensitive PBXN-7 booster and lead) and FZU-32 arming unit. The FMU-143E/B fuze and BLU-109 warhead transitioned to the Single Manager for Conventional Ammunition in FY 95.</p> <p>Product Improvement Program (PIP): DSU-33: FY 97 represents a one time buy of this proximity fuze. PIP efforts, funded in FY 95 through FY 96, will improve and qualify this fuze which will be used by both Navy and Air Force. This procurement satisfies the Navy's requirements for a fuze to detonate over land and water at a predetermined height.</p> <p>In FY 97, the MK-83 Conical Fins and BSU-33 are procured to replace Non-combat expenditures, maintain war reserve, and to support both live and inert 500 lb training.</p> <p>PES/ILS: The FY 97 production engineering support (PES) and Integrated logistics support (ILS) are continuing efforts in support of the procurement of GP bombs to include the GBU-24 Hard Target Penetrator and numerous ancillary components. These efforts include providing recommendations and assisting in rapid resolution of maintenance procedure discrepancies to achieve optimum asset readiness; audits, pre-award surveys, post award surveys, post award conferences, First Article Testing or any other technical problems which may arise. These funds are provided in parallel with the FY 97 buy of end items.</p>								
<p>* In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 appropriation.</p>								

EXHIBIT P-40

P-1 SHOPPING LIST  
ITEM NO 36 PAGE NO 1

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3/25/96

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PROGRAM COST BREAKDOWN				DATE		March 1996		
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE					
WP/NB.A. 5 - Ammunition			General Purpose Bombs (Y1Q2)/(Y5Q2)					
COST CODE	ELEMENT OF COST	IDENT CODE	FY 95		FY 96		FY 97	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
Q2010	BSU-33 (F782)		22,703	3,669	13,804	2,231	18,663	2,600
Q2TBD	MK-83 Conical Fins (F642)						19,798	6,455
Q2170	GBU-24/BLU-109		638	43,507	502	35,032	8,081	14,538
Q2TBD	DSU-33 Proximity Fuze			0		0	8,000	400
Q2890	M72 Cables			0		0		359
Q2800	ILS			747		350		(188)
	ILS (GP Bombs)			(315)		(200)		(171)
	ILS (GBU-24)			(432)		(150)		2,298
Q2830	PES			4,475		1,868		(1,215)
	PES (GP Bombs)			(2,833)		(1,590)		(1,083)
	PES (GBU-24)			(1,642)		(278)		100
Q2850	PIP*			2,341		2,519		100
Q2892	Non Standard Items			0		0		100
Q2893	Renovation Components			100		0		200
Q2894	Gaging			200		112		0
Q2899	Initial Training			67		0		
	TOTAL			55,106		42,112		27,150
	*FY 95-96 PIP funding will be used to qualify the DSU-33 for Navy use.							

EXHIBIT P-5

P-1 SHOPPING LIST  
ITEM NO 36 PAGE NO 2

UNCLASSIFIED  
CLASSIFICATION

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WPN BUDGET PROCUREMENT HISTORY AND PLANNING										DATE
APPROPRIATION/BUDGET ACTIVITY										March 1996
P-1 ITEM NOMENCLATURE										
General Purpose Bombs (Y1Q2)/(Y5Q2)										
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED	IF YES, WHEN AVAIL
<u>GBU-24 COMPONENTS</u>										
Q2170 <u>BLU-109</u> <u>Bomb Bodies</u> FY 94*	LOCKHEED (HUNTSVILLE, AL)	C/FP	HILL AFB	MAY 95	JUN 96	14	3,250.00	YES	NO	
FY 95	UNKNOWN	C/FP	ARMY	MAR 96	SEP 96	638	14,250.30	YES	NO	
FY 96	UNKNOWN	C/FP	ARMY	AUG 96	SEP 97	502	15,279.97	YES	NO	
<u>Q2170 BSU-84 AFG</u>										
FY 94	TEXAS INSTRUMENTS (SHERMAN, TX)	SS/FP	HILL AFB	MAR 95	SEP 95	412	9,165.00	YES	NO	
FY 95	TEXAS INSTRUMENTS	SS/FP	HILL AFB	SEP 95	SEP 96	638	8,814.19	YES	NO	
FY 96	TEXAS INSTRUMENTS	SS/FPoption	HILL AFB	AUG 96	SEP 97	502	8,866.87	YES	NO	
<u>Q2170 ADG-770/B</u> <u>Hard Back</u>										
FY 94	TEXAS INSTRUMENTS (SHERMAN, TX)	SS/FP	HILL AFB	JUN 94	SEP 95	412	1,035.00	YES	NO	
FY 95	TEXAS INSTRUMENTS	SS/FP	HILL AFB	SEP 95	SEP 96	638	1,098.38	YES	NO	
FY 96	TEXAS INSTRUMENTS	SS/FPoption	HILL AFB	AUG 96	SEP 97	502	1,104.94	YES	NO	
Remarks *Unit cost does not include LAP dollars.										

EXHIBIT P-5A

P-1 SHOPPING LIST  
ITEM NO. 36 PAGE NO. 3

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WPN BUDGET PROCUREMENT HISTORY AND PLANNING										DATE
APPROPRIATION/BUDGET ACTIVITY										March 1996
WPN/B.A. - Ammunition										
P-1 ITEM NOMENCLATURE										
General Purpose Bombs (Y1Q2)/(Y5Q2)										
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED	IF YES, WHEN AVAIL
<u>GBU-24 COMPONENTS (Con't)</u>										
Q2170 <u>WGU-39/B G&amp;C UNIT</u> FY 94	TEXAS INSTRUMENTS (SHERMAN, TX)	SS/FP	HILL AFB	MAR 95	SEP 95	412	37,629.00	YES	NO	
FY 95	TEXAS INSTRUMENTS	SS/FP	HILL AFB	SEP 95	SEP 96	638	41,839.39	YES	NO	
FY 96	TEXAS INSTRUMENTS	SS/FPopton	HILL AFB	AUG 96	SEP 97	502	42,089.46	YES	NO	
Q2170 <u>EMU-143 E/B FUZE(F849)</u> FY 94	DAYRON, INC (ORLANDO, FL)	SS/FP	EGLIN AFB	JUN 94	SEP 95	564	3,057.37	YES	NO	
FY 95	DAYRON, INC	SS/FP	ARMY	SEP 95	SEP 96	638	2,188.30	YES	NO	
FY 96	DAYRON, INC	SS/FP	ARMY	AUG 96	SEP 97	502	2,325.12	YES	NO	
Remarks:										

UNCLASSIFIED  
CLASSIFICATION

WPN BUDGET PROCUREMENT HISTORY AND PLANNING										DATE
APPROPRIATION/BUDGET ACTIVITY										March 1996
P-1 ITEM NOMENCLATURE										
General Purpose Bombs (Y1Q2)/(Y5Q2)										
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED	IF YES, WHEN AVAIL
Q2010 <u>BSU-33 (F782)</u> FY 95 FY 96 FY 97	UNKNOWN UNKNOWN UNKNOWN	C/FP C/FP C/FP	ARMY ARMY ARMY	MAY 96 MAY 96 MAY 97	FEB 97 FEB 97 FEB 98	22,703 13,804 18,663	161.61 161.61 139.31	YES YES YES	NO NO NO	
Q2TBD <u>MK-83 Conical Fins (F642)</u> FY 97	UNKNOWN	C/FP	ARMY	MAR 97	OCT 98	19,798	326.04	YES	NO	
TBD <u>DSU-33</u> FY 97	UNKNOWN	C/FP	EGLIN	JUN 97	DEC 97	8,081	1,799.00	YES	NO	
TBD <u>M 72 Cables</u> FY 97	UNKNOWN	C/FP	AMCCOM	JAN 97	FEB 97	8,000	50.00	YES	NO	
Remarks:										





FY 96/97 BUDGET PRODUCTION SCHEDULE													P-1 ITEM NOMENCLATURE GENERAL PURPOSE BOMBS (Y1Q2)/(Y5Q2) P-1 #36												DATE March 1996																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
ITEM/ MANUFACTURER/ PROCUREMENT													FISCAL YEAR 1998												FISCAL YEAR 1999												FISCAL YEAR 2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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BLU-109A/B (F142) (Each) (GBU-24)													OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY





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NAVJAG FORM 7710 1		WEAPONS PROCUREMENT, NAVY BUDGET ITEM JUSTIFICATION SHEET		(DOD EXHIBIT P-40)		DATE March 1996	
BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
5. Ammunition		2.75" Rocket (Y1Q3)					
		FY-95*	FY-96*	FY-97	FY-98	FY-99	FY-00
QUANTITY							FY-01
COST (\$M)		14.4	14.5	9.4	16.2	16.5	17.3

The current 2.75" system is used on both rotary and fixed wing aircraft. The system consists of launchers (LAU-68 seven-tube and LAU-61 19-tube), rocket motor (MK 66 Mod 2) and a family of warheads (high explosive, smoke, visible illumination, IR illumination and practice). These items are procured by the Army as Single Manager for Conventional Ammunition (SMCA) using Conventional Ammunition Working Capital Fund (CAWCF) standard prices.

Product Improvements address deficiencies in the safety, reliability and producibility of the 2.75 inch rocket system. Specific projects include: HERO safe igniter, Insensitive Munitions rocket motor compliance, and lightweight launcher feasibility study.

\*NOTE: In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 appropriation.

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APPROPRIATION		PROGRAM COST BREAKDOWN (DOD EXHIBIT P-5)				Date
Weapons Procurement, Navy						
BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE				SUBHEAD NO.
BA-5 Ammunition		2.75" ROCKETS				Y1Q3
Cost Code	ELEMENT OF COST	IDENT CODE	(Total cost in thousands of dollars)			
			FY-95		FY-96	
			QTY	TOTAL COST	QTY	TOTAL COST
Q3010	LAU-68 D/A Launcher (H122)	A	-	-	238	1,060
Q3030	WTU-1/B Warhead (H663)	A	-	-	11,988	300
Q3040	MK 66 Rocket Motor (HA03)	A	26,500	10,990	18,445	8,627
Q3070	M278 Warhead	A	-	-	2,000	1,596
Q3800	Integrated Logistics Support			144		150
Q3830	Production Engineering Support			1,143		1,279
Q3850	Product Improvement			1,716		1,310
Q3892	NonStandard Items			40		40
Q3893	Renovation Comp. (Metal Parts)			60		60
Q3894	Gaging			80		80
Q3899	Initial Training Packages			225		-
	TOTAL			14,398		14,502
						9,433

P-1 Shopping List  
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UNCLASSIFIED  
CLASSIFICATION

BUDGET PROCUREMENT HISTORY & PLANNING										DATE	March 1996
APPROPRIATION/BUDGET ACTIVITY										SUBHEAD NO:	
Weapons Procurement, Navy / BA-5 Ammunition										Y1Q3	
COST ELEMENT FISCAL YEAR		CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	ARE SPEC REVIS. REQ'D?	IF YES, WHEN AVAIL
Q3010 LAU-68 D/A LAUNCHER (H122)		UNKNOWN	C/FP	AMCCOM	May 96	Jul 97	238	4455.20	YES	NO	
FY 96		UNKNOWN	C/FP	AMCCOM	May 97	Jul 98	251	3832.55	YES	NO	
FY 97											
Q3030 WTU-1/B (H663)		UNKNOWN	C/FP	AMCCOM	May 96	Jul 97	11,988	25.05	YES	NO	
FY 96		UNKNOWN	C/FP	AMCCOM	May 97	Jul 98	17,331	18.06	YES	NO	
FY 97											
Q3040 MK 66 MOTORS (HA03)		LOCKHEEDMARTIN (Burlington, VT)	C/FP	AMCCOM	Nov 95	Feb 97	26,500	414.71	YES	NO	
FY 95		UNKNOWN	C/FP	AMCCOM	May 96	Jul 97	18,445	467.71	YES	NO	
FY 96		UNKNOWN	C/FP	AMCCOM	May 97	Jul 98	10,242	410.08	YES	NO	
FY 97											
Q3070 M278 WARHEAD		THIOKOL (Crane, IN)	C/FP	AMCCOM	May 96	Jul 97	2,000	798.00	YES	NO	
FY 96		UNKNOWN	C/FP	AMCCOM	May 97	Jul 98	2,000	822.00	YES	NO	
FY 97											
REMARKS: M278 is Navy priced. All other prices are based on AMCCOM prices provided 14 March 1996.											

P-1 Shopping List

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Exhibit P-5A  
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WEAPONS PROCUREMENT, NAVY BUDGET ITEM JUSTIFICATION SHEET					(DOD EXHIBIT P-40)	DATE
NAVJAT FORM 77101						
BUDGET ACTIVITY 5.						
P-1 ITEM NOMENCLATURE						
MACHINE GUN AMMUNITION (Y1Q4)						
AMMUNITION		FY-95*	FY-96*	FY-97	FY-98	FY-99
QUANTITY						
COST (\$M)		14.1	11.2	5.3	10.1	9.7
						10.4
<p>This line funds procurement of ammunition used with various aircraft gun systems. 20MM ammunition includes procurements of PGU-27/B (TP) (both bulk and linked cartridges). When employed in the bulk (linkless) condition these cartridges are used in the M61A1 gun systems in the F-14 and F/A-18 aircraft. When linked with the MK14 link, these cartridges are used in the M197 gun system in the AH-1 aircraft and in the GPU-2A gun pod. All 20MM ammunition is procured by the Army as Single Manager for Conventional Ammunition (SMCA) using Conventional Ammunition Working Capital Fund (CAWCF) standard prices.</p> <p>Funds requested for the Product Improvement Program (PIP) are required to: (1) restructure incorporation of a radiation safe primer to modify the M61/M197 gun systems to accept percussion or electrically primed ammunition; (2) correct anomalies in PGU 20MM ammunition; (3) conduct feasibility determination for the design of an aluminum cartridge case; and (4) complete the PIP on PGU-33 and transition to Low Rate Initial Production including verification of technical data package (TDP).</p> <p>*NOTE: In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 appropriation.</p>						

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034

APPROPRIATION		PROGRAM COST BREAKDOWN (DOD EXHIBIT P-5)				Date
Weapons Procurement, Navy						
BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE				SUBHEAD NO.
BA-5 Ammunition		Machine Gun Ammunition				Y1Q4
COST CODE	ELEMENT OF COST	IDENT CODE	(Total cost in thousands of dollars)			
			FY-95		FY-96	
			QTY	TOTAL COST	QTY	TOTAL COST
Q4010 Q4030 Q4050	20MM Ammunition					
	20MM LINKLESS PGU-27/B (A678)	A	1,612,250	8,626	1,074,000	442,950
	20MM LINK, TP, PGU-27/B (A772)	A	240,900	1,371	25,100	153,400
	20MM PGU-28/B (A677)	A	-	-	132,500	-
Q4150	25MM Ammunition					
	25MM SAPHEI PGU-32 (A990)	A	125,000	2,148	-	-
Q4800 Q4830 Q4850 Q4894	Production Support Services					
	Integrated Logistics Support			52	60	60
	Production Engineering Support			1204	1582 *	1201 *
	Product Improvement Program			625	1000	900
	Gaging			55	-	-
	TOTAL			14,081	11,234	5,341
*Increase in PES is due to a technical engineering support contract with Raufoss of Norway for multi purpose ammunition in response to HR 103-747 and previously unplanned PGU-28/B mishap investigation.						

PROCUREMENT HISTORY & PLANNING										DATE
B. APPROPRIATION/BUDGET ACTIVITY										SUBHEAD NO:
Weapons Procurement, Navy / BA-5 Ammunition				P-1 ITEM NOMENCLATURE						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQ'D	
MACHINE GUN AMMUNITION										
Q4010 20MM LINKLESS PGU-27/B (A678)										
FY 95	LAKE CITY AAP (Independence, MO)	C/FP	AMCCOM	Feb 95	Apr 96	1,612,250	5.35	YES	NO	
FY 96	UNKNOWN	C/FP	AMCCOM	Apr 96	Apr 97	1,074,000	5.80	YES	NO	
FY 97	UNKNOWN	C/FP	AMCCOM	Apr 97	Apr 98	442,950	4.91	YES	NO	
Q4030 20MM LINK, TP, PGU-27/B (A772)										
FY 95	LAKE CITY AAP (Independence, MO)	C/FP	AMCCOM	Feb 95	Apr 96	240,900	5.69	YES	NO	
FY 96	UNKNOWN	C/FP	AMCCOM	Apr 96	Apr 97	25,100	6.76	YES	NO	
FY 97	UNKNOWN	C/FP	AMCCOM	Apr 97	Apr 98	153,400	6.55	YES	NO	
Q4050 20MM PGU-28/B (A677)										
FY 96	UNKNOWN	C/FP	AMCCOM	Apr 96	Apr 97	132,500	16.55	YES	NO	
Q4150 25MM SAPHEI PGU-32 (A990)										
FY 95	ALLIANT TECH (Hopkins, MN)	C/FP	CHINA LAKE	Dec 95	Dec 96	125,000	17.19	YES	NO	
REMARKS: The FY 95 thru 97 prices are based on AMCCOM's prices provided 11 March 1996.										







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WPN BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION/BUDGET ACTIVITY										March 1996
P-1 ITEM NOMENCLATURE										
WPN/B.A. 5 - Ammunition										
Practice Bombs (Y1Q1)/(Y1Q5) PEO(T)										
			FY 95*	FY 96*	FY 97	FY 98	FY 99	FY 00	FY 01	
Quantity										
Cost (\$M)			12.7	18.6	11.1	30.1	34.3	38.6	40.1	
<p>Practice Bombs are a low cost alternative to expenditures of live bombs for training. The MK 76 simulates an unretarded MK 80 series bomb. It is a 25 lb. cast iron shape with a breach hole for a MK 4 or CXU-3 signal which provides a smoke signal or flash upon impact. The BDU-48 simulates retard bombs. It is a 10 lb. thin cased cylindrical bomb with a breach hole for a MK4 or CXU-3 Signal. The BDU-45 NTP and MK 83 Inert are full-sized Practice Bombs. They are MK 80 series bomb bodies filled with an inert material and have the same weight, size, center of gravity and ballistics of a live bomb. The BDU-45 uses a CXU-4 signal cartridge for spotting location and simulates a 500 lb. GP Bomb. The BDU-45 is procured by the Army as a Single Manager for Conventional Ammunition using Conventional Ammunition Working Capital Fund standard prices.</p> <p>Effective use of the PAVEWAY II Laser Guided Bombs (LGB) precision guided weapon requires close coordination between the aircrew and the laser designator. Development of delivery options and multi-aircraft tactics require extensive cost effective training. The congressionally directed procurement of the Laser Guided Training Round (LGTR) is capable of replicating the kinematics of LGBs to provide increased basic training capability and follow-on advanced tactics development; and is suitable for launch from all Navy and Marine Corps aircraft used to deploy LGBs. LGTR provides actual hardware for aircrew and tactics development at a greatly reduced cost while maintaining LGB stockpiles.</p> <p>The FY 97 Production Engineering Support and Integrated Logistics Support are continuing annualized efforts associated with ongoing procurements of the Practice Bombs associated Signal Cartridge, BDU-45/B and LGTR. These efforts include maintenance of PDP (Procurement Data Packages), participation in post award conferences, first article and quality assurance testing; ECP review/comments/ recommendations, technical manual update, evaluation of engineering change proposals, and response to fleet inquiries.</p>										
* In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 appropriation.										

EXHIBIT P-40

P-1 SHOPPING LIST  
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UNCLASSIFIED  
CLASSIFICATION

3/25/96

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PROGRAM COST BREAKDOWN										DATE	March 1996
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE							
WPB/B.A. 5 - Ammunition				Practice Bombs (Y1Q1)/(Y5Q1)							
COST CODE	ELEMENT OF COST	IDENT CODE	QTY	TOTAL COST	QTY	FY 95 TOTAL COST	QTY	FY 96 TOTAL COST	QTY	FY 97 TOTAL COST	
Q1040	BDU 45/B (F017)	A					8,146	6,961	11,158	7,881	
Q1300	Laser Guided Training Round				1,785	10,000	1,393	7,805	0	0	
Q1800	ILS					250		350		350	
Q1830	PES					2,287		2,943		2,350	
Q1850	PIP					0		300		300	
Q1894	Gaging					200		250		250	
Q1899	Initial Training					0		0		0	
	TOTAL					12,737		18,609		11,131	

EXHIBIT P-5

P-1 SHOPPING LIST  
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WPN BUDGET PROCUREMENT HISTORY AND PLANNING										DATE	March 1996
APPROPRIATION/BUDGET ACTIVITY										P-1 ITEM NOMENCLATURE	
WPN/B.A. 5 - Ammunition										Practice Bombs (Y1Q1)/(Y5Q1)	
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED	IF YES, WHEN AVAILABLE	
Q1040 BDU-45/B (F017) FY 96	MCALISTER, AAP (MCALISTER, OK)*	SS/FP	ARMY	APR 96	JUN 97	8,146	854.48	YES	YES		
FY 97	MCALISTER, AAP	SS/FP	ARMY	APR 97	JUN 98	11,158	706.27	YES	YES		
Q1300 LASER GUIDED TRAINING ROUND (LGTR) FY 94	LORAL (ARCHIBALD, PA)	SS/FP	NAVY	MAY 95	DEC 95	2,500	3,789.00	YES	YES		
FY 95**	LORAL	SS/FP	NAVY	SEP 96	APR 97	1,785	5,600.00	YES	YES		
FY 96	LORAL	SS/FP	NAVY	SEP 96	APR 97	1,393	5,600.00	YES	YES		
REMARKS											
*IMCO, Garland, Texas bomb bodies manufacturer; LAP at McAlester, OK.											
**FY 1995/96 will be a combined buy to Loral. Unit Cost includes LGTR II and steel containers, an improvement in the delivery package which represents PAVEWAY III.											
Note: The FY 94 buy was for LGTR I with wooden containers and represented PAVEWAY II.											

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WPN BUDGET ITEM JUSTIFICATION SHEET					DATE			
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE					
			Cartridges and Cartridge Actuated Devices (CARTS/CADS) (Y1Q8) / (Y5Q4) PEO(T) Program					
WP/N/B.A. 5 - Ammunition			FY 96*	FY 97	FY 98	FY 99	FY 00	FY 01
Quantity								
Cost (\$M)		15.3	17.6	21.9	23.0	24.4	25.8	26.1

#### Escape System/Life Support Devices

These items, such as safety/arming devices, sequence controls, shielded mild detonating cord, gas generators, initiators, thermal batteries, etc, are used in aircraft emergency escape systems. The total number of devices installed varies with the type of aircraft, for example: F-14/A(273); F/A-18(136); S-3(105); EA-6B(45), T-45(76), T/AV-8(90) and AH-1(27). These explosives have finite service lives and are replaced during scheduled maintenance. An aircraft may be grounded if a single one of these items does not meet the standard. Life support devices such as the Sea Water Activated Release System and the FLU-8B/P automatic life vest inflator are essential to crew survival after ejection.

#### Weapons/Stores Release Cartridges

These items are used to eject weapons/stores from aircraft. The JAU-22 and other miscellaneous impulse cartridges are used to eject sonobuoys from aircraft.

#### Product Improvement Programs

Product Improvement Programs (PIP) are conducted as part of a continuing effort to correct deficiencies in areas of safety, reliability, maintainability, producibility, and to increase the service life of CARTS and CADS.

#### Production Engineering Support

The Production Engineering Support (PES) efforts include: the review of procurement requests, waivers and deviations, technical support of Lot Acceptance Testing/First Article Testing, as well as conforming to new EPA regulations.

#### Integrated Logistics Support

Integrated Logistics Support (ILS) efforts provide for ILS planning, maintenance standardization, conducting supply support, technical data programs, and generation and implementation of a traceability system.

\* In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 appropriation.

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PROGRAM COST BREAKDOWN									
APPROPRIATION/BUDGET ACTIVITY			DATE						
WPB/B.A. 5 - Ammunition			March 1996						
P-1 ITEM NOMENCLATURE									
CARTS/CADS (Y1Q8) / (Y5Q4)									
COST CODE	ELEMENT OF COST	IDENT CODE	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	FY 97 TOTAL COST
Q8TBD	JAU-22/B Init. Ctg. (MF64)	A		0		0	158,217	1,847	
Q8060	Thermal Battery (CDWR)	A	166	531	274	899	338	1,136	
Q8070	PCU-48/B Parachute Release Ct. (4W69)		1,301	659	413	215	457	246	
Q8TBD	BBU-57/A Cutter (DF03)			0	97	1,162	72	888	
Q8120	JAU-52 (MJ91)	A	272	897	340	1,122	472	1,609	
Q8300	Navy Aircrew Common Ejection Seat			2,167		1,037		1,833	
Q8600	Misc Devices Under \$500K			5,568		7,033		8,338	
Q8800	Integrated Logistics Support			1,359		1,207		1,521	
Q8830	Production Engineering Support			1,454		2,390		1,888	
Q8840	Quality Assurance			300		373		382	
Q8850	Product Improvement Program			1,256		1,342		1,373	
Q8860	Acceptance Testing			1,100		816		878	
TOTAL				15,291		17,596		21,939	

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WPN BUDGET PROCUREMENT HISTORY AND PLANNING										DATE
APPROPRIATION/BUDGET ACTIVITY										March 1996
WPN/B.A. 5 - Ammunition										
P-1 ITEM NOMENCLATURE										
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED	IF YES, WHEN AVAILABLE
Q8TBD JAU-22/B Init Ctg (MF64) FY 97	UNKNOWN	C/FP	SPCC	APR 97	APR 98	158,217	11.67	YES	NO	
Q8060 THERMAL BATTERY (CWDR) FY 95* FY 96* FY 97*	MSA MSA MSA	SS/FP SS/FP SS/FP	NRCC NRCC NRCC	APR 95 APR 96 APR 97	APR 96 APR 97 APR 98	166 274 338	3,199.26 3,279.24 3,361.22	YES YES YES	NO NO NO	
Q8070 PCU-48/B Parachute Release Ctg (4W69) FY 95	CONAX (St. PETERSBURG, FL)	C/FP	SPCC	AUG 95	JUN 96	1,301	506.39	YES	NO	
FY 96 FY 97	UNKNOWN UNKNOWN	C/FP C/FP	SPCC SPCC	MAR 96 MAR 97	MAR 97 MAR 98	413 457	521.58 537.23	YES YES	NO NO	
Q8TBD BBU-57A Cutter (DF03) FY 96 FY 97	UNKNOWN UNKNOWN	C/FP C/FP	SPCC SPCC	APR 96 APR 97	MAR 97 MAR 98	97 72	11,979.38 12,340.21	YES YES	NO NO	
REMARKS										

\* Contractor owned data package.

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WPN BUDGET PROCUREMENT HISTORY AND PLANNING										DATE
APPROPRIATION/BUDGET ACTIVITY										March 1996
WPN/B.A. 5 - Ammunition										
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	CARTS/CADS (Y1Q8) / (Y5Q4)	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED	IF YES, WHEN AVAILABLE
Q8120 JAU-52 (MJ91) FY 95	ROCKET RESEARCH (SEATTLE, WA)	SS/FP	SPCC	NOV 95	NOV 96	272	3,297.74	YES	NO	
FY 96	ROCKET RESEARCH (SEATTLE, WA)	SS/FP	SPCC	APR 96	APR 97	340	3,300.00	YES	NO	
FY 97	ROCKET RESEARCH (SEATTLE, WA)	SS/FP	SPCC	APR 97	APR 98	472	3,408.90	YES	NO	
REMARKS										

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FY 96/97 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE												DATE												March 1996											
										CARTS/CADS (Y1Q8) / (Y5Q4) P-1 #40																																			
										FISCAL YEAR 1996												FISCAL YEAR 1997																							
										CALENDAR YEAR 1996												CALENDAR YEAR 1997																							
										OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP												
										BAL												DUE												AS OF											
										ACCPT												PRIORITY												TO											
										SER												QTY												1 OCT											







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WPN BUDGET ITEM JUSTIFICATION SHEET										DATE
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE Aircraft Escape Rockets/Catapults (Y1Q9) / (Y5Q9) PEO(T) PROGRAM								
WPN/B.A. 5 - Ammunition		FY 95*	FY 96*	FY 97	FY 98	FY 99	FY 00	FY 01		
Quantity										
Cost (\$M)		9.4	10.4	8.2	8.5	10.2	10.5	10.7		

This program provides funding for rocket motors, rocket catapults and catapults used to eject crewmen from disabled aircraft. The program is structured to meet replacement requirements that are based on aircraft inventories and escape rocket/catapults service lives. An aircraft containing a single escape rocket/catapult not up to man-rated standards is grounded for safety-of-flight. Spare inventories are limited to the lowest level that can be maintained without causing aircraft grounding due to shortfalls. Devices are also used to function aircraft emergency safety systems.

**PES:** Production Engineering Support efforts include the review of procurement requests, waivers and deviations, and technical support for First Article Testing/Lot Acceptance Testing. Conformance with new EPA regulations is part of the PES review.

**ILS:** Integrated Logistics Support efforts will provide ILS planning, maintenance standardization, supply support, the generation and implementation of a traceability system, and technical data programs.

**PIP:** Multi-year Product Improvement Programs consists of programs to ensure producibility and safety for the MK 109 Canopy Remover Rocket Motor, the MK 12/16/18 Rocket Catapults, as well as the MK 100/101/123/124 Underseat Rocket Motors.

The FY 1997 budget request provides funding for the procurement of MK-122 parachute deployment rocket motors, MK-123/124 underseat rocket motors, various miscellaneous devices, PIP and associated production engineering and integrated logistics support.

\*In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 appropriation.

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PROGRAM COST BREAKDOWN										DATE
APPROPRIATION/BUDGET ACTIVITY					P-1 ITEM NOMENCLATURE					
WPN/B.A. 5 - Aviation Support Equipment					Aircraft Escape Rockets/Catapults (Y1Q9) / (Y5Q9)					
COST CODE	ELEMENT OF COST	IDENT CODE	FY 95		FY 96		FY 97		TOTAL COST	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
Q9070	MK122 Parachute Deployment Rkt Mtr (MT29)	A							19	66
Q9080	MK123 Underseat Rkt Mtr (MT30)	A	204	583		0			9	80
Q9081	MK124 Underseat Rkt Mtr (MT31)	A	69	506		0			18	160
Q9090	MK 100 Rkt Mtr (MD68)	A	145	1,063	82	900			0	0
Q9820	Reliability Life			911		560				556
Q9130	Misc Devices Under \$500K			2,359		5,064				3,817
Q9800	Integrated Logistics Support			543		570				575
Q9830	Production Engineering Support			923		868				364
Q9850	Product Improvement Program			1,894		1,832				1,872
Q9860	Acceptance Test			657		574				682
TOTAL				9,439		10,368				8,172

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WPN BUDGET PROCUREMENT HISTORY AND PLANNING										DATE
APPROPRIATION/BUDGET ACTIVITY										March 1996
P-1 ITEM NOMENCLATURE										
WPN/B.A. 3 - Aviation Support Equipment - Air-Launched Ordnance										
LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED	IF YES, WHEN AVAILABLE
Q9070 MK 122 Parachute Deployment Rkt Mtr (MT29) FY 95	MARTIN-BAKER (LONDON, ENG)	C/FP	SPCC	APR 95	APR 96	204	2,858.68	YES	NO	
FY 97	UNKNOWN	C/FP	SPCC	APR 97	APR 98	19	3,466.20	YES	NO	
Q9080 MK 123 Underseat Rkt Mtr (MT30) FY 95	MARTIN-BAKER (LONDON, ENG)	C/FP	SPCC	APR 95	APR 96	69	7,334.42	YES	NO	
FY 97	UNKNOWN	C/FP	SPCC	APR 97	APR 98	9	8,867.81	YES	NO	
Q9081 MK 124 Underseat Rkt Mtr (MT31) FY 95	MARTIN-BAKER (LONDON, ENG)	C/FP	SPCC	APR 95	APR 96	145	7,328.40	YES	NO	
FY 97	UNKNOWN	C/FP	SPCC	APR 97	APR 98	18	8,867.81	YES	NO	
Q9090 MK 100 Rocket Motor (MD68) FY 96	MARTIN-BAKER (LONDON, ENG)	SS/FP*	NRCC	APR 96	APR 97	82	10,979.17	YES	NO	
REMARKS										

\* Contractor owned data package.

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BUDGET ITEM JUSTIFICATION SHEET										(DOD EXHIBIT P-40)		DATE March 96	
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE									
Weapons Procurement, Navy / BA-5 - AMMUNITION				AIRBORNE EXPENDABLE C/M PROGRAM (SH 41QA)									
				FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY					*								
COST (in millions)				14.0	24.3	22.0	42.9	66.8	54.2	51.6			
<p>The Airborne Electronic Warfare Expendable Countermeasures (ABN EXP C/M) line provides funding for procurement of countermeasure self-protection devices for all Navy and Marine Corps tactical, rotary and slow fixed-wing aircraft. The ABN EXP C/M Program is divided into the following threat related categories: (a) air-launched chaff, (b) Radio Frequency (RF) Active jammers, (c) infrared (IR) decoys, (d) associated impulse cartridges, and (e) support costs.</p> <p><b>Chaff Countermeasures:</b> The LAU-138A/A BOL Chaff launcher was procured as a Non-Developmental Item (NDI) to meet F-14 requirements. Developmental Testing is underway to determine BOL Chaff suitability for F/A18 series aircraft. The RR-184 is the chaff countermeasure associated with the LAU-138A/A BOL Chaff launcher. The FY95 funds will be used to qualify an IR countermeasure into the existing RR-184 package. The FY96 funds will be used to ensure an economical initial procurement of the BOL IR countermeasure.</p> <p><b>Active Jammers:</b> The Generic Expendable Decoy (GEN-X) is compatible with all current and future countermeasure dispensers 29/39/47) and is capable of countering multiple RF threats.</p> <p><b>IR Decoys:</b> Beginning in FY96 the MJU38 will replace the MJU8A/B and will be the infrared countermeasure used by high performance (tactical) aircraft. Beginning in FY96 the MJU32 will replace the MK46 and will be the infrared countermeasure used by rotary and slow fixed-wing aircraft. The MJU32 and MJU38 incorporate several safety enhancements that will significantly lessen the hazards associated with handling and producing magnesium fueled devices. The RR191 is a dual RF/IR countermeasure in support of lower/slower flying aircraft. The MJU-27A/B incorporates a safety enhancement and will replace the MJU-27B. The SM875 is a dedicated, low cost training device that was transitioned to the Army as Single Manager for Conventional Ammunition (SMCA) during FY95 and will be competitively procured by the SMCA in FY96.</p> <p><b>Impulse Cartridges:</b> Used to propel the self-protection devices away from the aircraft. CCU-63/B is used for flares/GEN-X/ SM875 (flare training round) and the CCU41/B is used for chaff.</p> <p><b>Support costs:</b> Provide for required Production Engineering (PE), Product Improvement (PIP), Quality Assurance (QA) , Acceptance Test and Evaluation (AT&amp;E), and Integrated Logistic Support (ILS) by NAVAIR engineering/cognizant field activities.</p> <p>*In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 appropriation.</p>													

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PROGRAM COST BREAKDOWN (DOD EXHIBIT P-5)											DATE	
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE								March 96	
WEAPONS PROCUREMENT, NAVY / BA5 - AMMUNITION			AIRBORNE EXPENDABLE C/M PROGRAM # 42								SUBHEAD	
COST CODE	ELEMENT OF COST	IDENT CODE	(TOTAL COST IN THOUSANDS OF DOLLARS)								FY 1997	TTL COST
			FY 1995		FY 1996		FY 1997		QTY	TTL COST		
			QTY	TTL COST	QTY	TTL COST	QTY	TTL COST				
Q5240	<u>CHAFF COUNTERMEASURES</u> RR-184 BOL CHAFF	A		642,456	1,954					945	6,291	
Q5250	<u>ACTIVE JAMMERS</u> GEN-X DECOY	A					20,883	2,594				
Q5130	<u>IR DECOYS</u> MJU-27A/B DECOY	A										
Q5140	MJU-32/B ROTARY-WING DECOY	A					138,696	4,624	125,838		3,614	
Q5150	MJU-38 FIXED WING DECOY	A					131,094	5,322	113,185		3,980	
Q5260	SM875 (TRAINING FLARE)	A					127,960	1,115				
Q5070	<u>IMPULSE CARTRIDGES</u> CCU-63/B (IR DECOYS)	A					316,000	414	407,445		546	
Q5080	CCU-41/B (CHAFF)	A		683,039	860		130,000	196				
Q5830	<u>SUPPORT COSTS</u> PRODUCTION ENGINEERING				1,960			1,960			1,850	
Q5840	QUALITY ASSURANCE				491			507			510	
Q5850	PRODUCT IMPROVEMENT				4,862			4,239			2,101	
Q5860	ACCEPTANCE TEST & EVALUATION				3,672			2,987			2,788	
Q5800	ILS				190			350			300	
	TOTAL				13,989			24,308			21,980	

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## BUDGET PROCUREMENT HISTORY &amp; PLANNING (DOD EXHIBIT P-5A)

APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE				DATE			
WEAPONS PROCUREMENT, NAVY / BA5 - AMMUNITION				AIRBORNE EXPENDABLE C/M PROGRAM # 42				March 1996			
COST CODE	ELEMENT OF COST	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQ'D? WHEN?	IF YES, WHEN AVAIL
	<b>Chaff Countermeasures</b>										
Q5240	RR-184 BOL CHAFF (CWCK) FY-95	Tracor Lillington, NC	C/FP	NSPCC	Jan 96	Dec 96	642,456	3.04	Yes	No	
	<b>Active Jammers</b>										
Q5250	GEN-X DECOY (CWCG) FY-94	TEXAS INST Dallas, TX	SS/FP	NAWCAD Warminster	Sep 94	Aug 96	1,440	5,550.00	Yes	No	
	(CWCG) FY-97	TEXAS INST Dallas, TX	SS/FP	NAWCAD	Jun 97	Oct 97	945	6,656.84	Yes	No	
	<b>Infrared Decoys</b>										
Q5130	MJU-27A/B DECOY (EWAA) FY-96	ALLOY Wilmington DE	SS/FP	SMCA	Jun 96	Oct 96	20,883	124.19	Yes	Yes	
Q5140	MJU-32 ROTARY WING AIRCRAFT DECOY (LA01) FY-96	Unknown	C/FP	SMCA	Jun 96	Oct 96	138,696	33.34	Yes	No	
	(LA01) FY-97	Unknown	C/FP	SMCA	Jun 97	Oct 97	125,838	28.72	Yes	No	
REMARKS: RR-184/189 BOL chaff was competitively procured beginning FY94. During March of 95 Tracor bought Lundy (chaff production) and currently is the only chaff producer in the U.S. The FY-97 GEN-X unit cost reflects DCAA approved adjusted overhead rate. The MJU32 is a product improvement to the MK46. The MJU27A/B is a safety improved version of the MJU-27/B. The MJU-27A/B and the MJU-32 will transition to and be competitively procured by the SMCA in FY96.											



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BUDGET PROCUREMENT HISTORY & PLANNING (DOD EXHIBIT P-5A)										DATE
APPROPRIATION/BUDGET ACTIVITY										March 1996
WEAPONS PROCUREMENT, NAVY / BA5 - AMMUNITION										SUBHEAD NO.
P-1 ITEM NOMENCLATURE										41QA
AIRBORNE EXPENDABLE C/M PROGRAM #42										
COST CODE	ELEMENT OF COST	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQ'D? WHEN AVAIL
	<b>Infrared Decoys</b>									
Q5150	MJU-38 TACTICAL AIRCRAFT DECOY (LA02) FY-96	UNKNOWN	C/FP	SMCA	Jun 96	Nov 96	131,094	40.60	Yes	No
	(LA02) FY-97	UNKNOWN	C/FP	SMCA	Jun 97	Oct 97	113,185	35.16	Yes	No
Q5260	SM875 TRNG FLARE (L540) FY-96	UNKNOWN	C/FP	SMCA	Jun 96	Oct 96	127,960	8.71	Yes	No
	<b>Impulse Cartridges</b>									
Q5070	CCU-63/B (IR DECOYS (MF29) FY-96	UNKNOWN	C/FP	NSPCC	May 96	Oct 96	316,000	1.31	Yes	No
	(MF29) FY-97	UNKNOWN	C/FP	NSPCC	May 97	Oct 97	407,445	1.34	Yes	No
Q5080	CCU-41/B (CHAFF) (MF60) FY-95	CAPCO	C/FP	NSPCC	Feb 95	Sep 95	625,706	1.24	Yes	No
	(MF60) FY-95	UNKNOWN	C/FP	NSPCC	May 96	Sep 96	57,333	1.51	Yes	No
	(MF60) FY-96	UNKNOWN	C/FP	NSPCC	May 96	Sep 96	130,000	1.51	Yes	No
REMARKS										
The MJU38 incorporates a safety improvement to and will replace the MJU-8A/B beginning in FY96. The MJU-38 will transition to and be competitively procured by the SMCA in FY96.										
The SM875 is a dedicated, low cost training device that was transitioned to the SMCA during FY95 and will be competitively procured by the SMCA in FY96.										

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FY95-96 PRODUCTION SCHEDULE P-21										DATE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES			REACHED	PROCUREMENT LEAD TIME				MANUFAC-TURING TIME	TOTAL AFTER
	MINIMUM SUST.	1 8 5	MAX		ADMIN LEAD TIME					
					PRIOR	AFTER				
RR-184 CHEMRING	84.5K	169K	TBD		1 Oct	1 Oct		12	14	1 Oct
RR-184 (U.S.) TRACOR	85K	85K	170K	INITIAL				3	15	
GEN-X TEX INST	200	800	800					17	28	
MJU27A/B ALLOY SURFACES	1020	8000	16000	REORDER				4	12	
								8	12	
								3	14	
								11	14	

REMARKS:  
Chaff procurement lead times reflect Single Manager for Chaff estimates.  
FY-91 - 93 The RR-184 was procured on a single contract with Chemring, PLC. Production Ramp-up was not required as Chemring produces like material for MOD U.K. BOL Chaff deliveries shown are actual; RR-184 is 13 months ahead of schedule.  
Beginning with the FY-94 buy, BOL Chaff is competitively procured. Therefore, BOL Chaff has 2 vendors (U.S. and U.K.) making simultaneous deliveries. Production rates for TRACOR estimated to be 85,000 packets per month.  
Gen-X schedule reflects contract modification.  
Procurement of the MJU27A/B will transition to SMCA. Initial procurement FY-96.



## WEAPONS PROCUREMENT, NAVY / BA5 - AMMUNITION

**P-1 ITEM NOMENCLATURE**

ABN EXPENDABLE C/M PROGRAM #42

DATE \_\_\_\_\_

March 1996

SUBHEAD NO.

41QA

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REMARKS:

MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES			REACHED			PROCUREMENT LEAD TIME		TOTAL	
	MINIMUM SUST.	1 B 5 MAX					ADMIN LEAD TIME			MANUFAC. TURNING TIME
		10K	60K				240K	PRIOR 1 Oct		
CCU-63/B WOERNER	10K	60K	240K		INITIAL			6	7	13 CCU41
CCU-41/B QUANTIC	20K	60K	240K					8	5	13 CCU63
CCU-41/B CAPCO	20K	60K	180K		REORDER					
								7	5	12 CCU63 (FY97)
								7	4	11 CCU41/B

P-1 Shopping List  
ITEM NO. 42

DD FORM 2445, JUL 87

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DD FORM 2448, JUL 87	P-1 Shopping List ITEM NO. 42	PAGE NO. 8	UNCLASSIFIED
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**CLASSIFICATION**

NAVMAT FORM 77101		WEAPONS PROCUREMENT, NAVY (DOD EXHIBIT P-40)		DATE March 1996
BUDGET ACTIVITY 5. Ammunition		BUDGET ITEM JUSTIFICATION SHEET		
P-1 ITEM NOMENCLATURE		MARINE LOCATION MARKERS (Y1Q6)		
P-1 ITEM NOMENCLATURE		PEO(T) Program		
		FY-95*	FY-96*	FY-97
				FY-98
				FY-99
				FY-00
				FY-01
QUANTITY				
COST (\$M)		0.8	0.9	0.6
			0.7	2.1
				3.4
				2.0

Marine Location Markers

These items include aircraft launched pyrotechnic devices which visually assist in the location of sonobouys in anti-submarine operations. They are also hand launched and used in a variety of situations which require a "marked spot" on the water surface, including man-overboard drills. The MK 58 was designed for day or night use in any condition calling for long burning, smoke and flame reference-point marking on the ocean. It produces yellow flame and white smoke for 40-60 minutes which is visible for at least three miles under normal operating conditions. The MK 25 is designed to launch from aircraft (primary) or surface craft to provide day/night reference-points in marking the course of enemy contacts. It is suitable for any type sea surface reference point marking that calls for both smoke and flame for approximately fifteen minutes.

The current budget profile provides funding for support efforts (PES, ILS), procurement of non-standard items, renovation components, and product improvement programs (PIPs) for future procurements. Funds for PIP are required to complete final testing and documentation of MK 58 Mod 2 and the sonobouy launch container (SLC)-type in FY 95. The effort to characterize red phosphorus (RP) will continue. The incorporation of an improved red phosphorus smoke composition for Marine Location Markers will begin. In FY 96/97, development of environmentally friendly pyrotechnic compositions and improvement to the producibility of pyrotechnic items begins. Improvements planned are to add a switch to the firing circuit which will improve the safety of the marker and to replace the aluminum inner tube with a steel tube.

\*NOTE: In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 appropriation.

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APPROPRIATION		PROGRAM COST BREAKDOWN (DOD EXHIBIT P-5)				Date
Weapons Procurement, Navy						
BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE				SUBHEAD NO.
BA-5 Ammunition		MARINE LOCATION MARKERS PEO(T) Program				Y1Q6
Cost Code	ELEMENT OF COST	IDENT CODE	(Total cost in thousands of dollars)			
			FY-95	FY-96	FY-97	
			QTY	TOTAL COST	QTY	TOTAL COST
Q6800 Q6830 Q6850 Q6892 Q6893	ILS			25		23
	Prod Engineering Support			255		182
	Product Improvement			465		300
	Non-Standard Items			17		65
	Renovation Comp. (Metal parts)			14		10
TOTAL				776		580

WEAPONS PROCUREMENT, NAVY BUDGET ITEM JUSTIFICATION SHEET				DATE March 1996	
NAVJAT FORM 7710 1					
BUDGET ACTIVITY 5. Ammunition		P-1 ITEM NOMENCLATURE JATO (JET ASSISTED TAKE OFF) (Y1Q7) PEO(T) Program			
	FY-95*	FY-96*	FY-97	FY-98	FY-99
QUANTITY					FY-00
COST (\$M)	1.8	4.8	4.2	5.0	5.8
					FY-01
					5.9
					6.0

**Description:** The JATOs currently in production are the MK 117, MK 125, and MK 128. JATOs are relatively small solid propellant rocket motors used to assist aircraft during takeoff, launch target drones and Remotely Piloted Vehicles (RPVs).

**Intended use:** Two MK 117s are used to launch one BQM 74C target. The MK 117 replaces the MK 91 and provides increased performance required to launch increasingly heavy targets. One MK 125 is used to launch the Pioneer RPV. The MK 128 is an improved version of the MK 6 developed to correct age related defects that impacted safety. Up to eight MK 128s are used to provide auxiliary thrust to C-130 aircraft when heavily loaded and/or using a short runway.

**Product Improvement:** Funds requested for the Product Improvement Program (PIP) are in support of MK 117 design verification/qualification testing.

The FY 1997 budget request provides funding for procurement of 162 MK 128s, 616 MK 117s and associated PIP, production engineering and logistics support.

**\*NOTE:** In FY 1995/96, this program is funded in the Procurement of Ammunition, Navy and Marine Corps BA-1 appropriation.



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APPROPRIATION		PROGRAM COST BREAKDOWN (DOD EXHIBIT P-5)				Date
Weapons Procurement, Navy						March 1996
BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE				SUBHEAD NO.
5. Ammunition		JATO (JET ASSISTED TAKE OFF)				Y1Q7
Cost Code	ELEMENT OF COST	JATO IDENT CODE	PEO (T) Program (Total cost in thousands of dollars)			
			FY-95		FY-96	
			QTY	TOTAL COST	QTY	TOTAL COST
QX050	MK 125 RATO (H311)	A	148	485	-	-
QX060	MK 128 JATO (H314)	A	-	-	-	1,056
QX820	MK 117 MOD 0 ROCKET MOTOR (H341)	A	312	967	1,189	2,015
QX800	ILS			44		50
QX830	PRODUCTION ENGINEERING			264		400
QX850	PRODUCT IMPROVEMENT			-		645
	TOTAL			1,760		4,166

BUDGET PROCUREMENT HISTORY & PLANNING										DATE
APPROPRIATION/BUDGET ACTIVITY										March 1996
Weapons Procurement, Navy Ammunition				PEO(T) Program				P-1 ITEM NOMENCLATURE		SUBHEAD NO:
COST ELEMENT/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
QX050 MK 125 RATO (H311) FY 95	UNIVERSAL PROPULSION CO, INC (PHOENIX, AZ)	C/FP	Indian Head	Jun 95	Oct 96	148	3,278.00	YES	NO	
QX060 MK 128 JATO (H314) FY 94	NSWC IHD (INDIAN HEAD, MD)	PO	NAVAIR	Apr 94	Mar 97	614	6,120.06	YES	NO	
FY 97	NSWC IHD	PO	NAVAIR	Apr 97	Apr 98	162	6,528.27	YES	NO	
QX820 MK 117 MOD 0 JATO RKT MTR (H341) FY 95	NSWC IHD (INDIAN HEAD, MD)	PO	NAVAIR	Apr 95	Apr 96	312	3,098.90	YES	NO	
FY 96	NSWC IHD	PO	NAVAIR	Apr 96	Apr 97	1,189	3,175.82	YES	NO	
FY 97	NSWC IHD	PO	NAVAIR	Apr 97	Apr 98	616	3,271.05	YES	NO	
REMARKS:										

Exhibit P-5A  
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P-1 Shopping List  
Item No. 44 Page 3

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NAVMAT FORM 7110.1	WEAPONS PROCUREMENT NAVY BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)		MARCH 1996	
BUDGET ACTIVITY 5 AMMUNITION					P-1 ITEM NOMENCLATURE 5"/54 GUN AMMUNITION			
		FY 95*	FY 96*	FY 97	FY 98	FY 99	FY 00	FY 01
QUANTITY								
COST (In Millions \$)		68.5	35.3	13.5	28.4	58.8	90.9	101.9

ITEM DESCRIPTION/JUSTIFICATION:

This is a round of ammunition (separate loading ammunition) fired from cruiser and destroyer type combatant ships against air, surface and shore targets. There are also numerous barrels located at schools and engineering test sites.

PROCUREMENT: The funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.

PRODUCTION ENGINEERING: Funds requested provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering function which are integral to an item's manufacture.

PRODUCT IMPROVEMENT: The requested funds provide engineering services and related effort by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.

\* In FY 1995 and FY 1996, this program is funded in Procurement Ammunition, Navy and Marine Corps BA-1.



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NAVJAG FORM 7110.1	WEAPONS PROCUREMENT NAVY BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	MARCH 1996
BUDGET ACTIVITY 5 AMMUNITION	P-1 ITEM NOMENCLATURE 5"/54 GUN AMMUNITION		

RENOVATION COMPONENTS: The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions.

GAUGE: These funds are required to procure the gauges and test equipments necessary to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance.

NON-STANDARD ITEMS: The non-standard line is to support procurement of ammunition training aids and initial procurements of required non type classified munition items.

All ammo procured with these funds is procured through the Conventional Ammunition Working Capital Fund (CAWCF) and the most recent CAWCF standard/non-standard price list has been used in pricing the ammo.

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## P-1 SHOPPING LIST

ITEM NO. 45 PAGE NO. 3  
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**EXHIBIT P-5 Weapons System Cost Analysis**

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APPROPRIATION WEAPONS PROCUREMENT, NAVY			PROCUREMENT HISTORY & PLANNING						(DOD EXHIBIT P-5A)		MARCH 1996		
BUDGET ACTIVITY 5 AMMUNITION		NARM CODE 525000		P-1 ITEM NOMENCLATURE 5/54 GUN AMMUNITION						SUBHEAD NO. 85AC			
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS		CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL
AC001	5/54 HE-CVT D803 NAVY LRIP												
	FY 1995	CAAA; CRANE, IN		MIPR	AMCCOM DRSMC	Nov-94	Jan-95	Jul-97	28300	764.85*	YES	NO	
	FY 1996	CAAA; CRANE, IN		MIPR	AMCCOM DRSMC	Nov-95	Jan-96	Jan-98	11800	959.00*	YES	NO	
AC002	5/54 FULL CHG D326												
	FY 1995	MCAAP; MCALESTER, OK		MIPR	AMCCOM DRSMC	Nov-94	Jan-95	Dec-96	32916	570.13*	YES	NO	
AC004	5/54 VT NON-FRAG D334												
	FY 1996	UNKNOWN		MIPR	AMCCOM DRSM	May-96	Jul-96	Aug-98	15500	864.81	YES	NO	
	FY 1997	UNKNOWN		MIPR	AMCCOM DRSMC	Nov-96	Jan-97	Feb-99	3455	805.84	NO	YES	Jul-98
AC008	5/54 BL&P D349												
	FY 1996	UNKNOWN		MIPR	AMCCOM DRSMC	May-96	Jul-96	May-98	1800	194.00	YES	NO	
AC013	5/54 PROJ HE-PD/PDD D884 NAVY LRIP												
	FY 1995	CAAA; CRANE, IN		MIPR	AMCCOM DRSMC	Nov-94	Jan-95	Jun-97	17000	840.42*	YES	NO	
AC017	PRIMER, ELEC-PERCUSSION, LOCK CO. N534												
	FY 1997	UNKNOWN		MIPR	AMCCOM DRSMC	Nov-96	Jan-97	Feb-98	20000	23.95	NO	YES	Jul-98

\*INCLUDES GFM









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Appropriation: Weapons Procurement, Navy  
Budget Activity: 5 Other Ordnance  
Production Schedule  
(DDO EXHIBIT P-21A)  
Date: MAY 1996

Budget Activity 5 Other Ordnance										P-1 Item Nomenclature 5"/54 Gun Ammunition												Subhead No. 85AC																								
										Fiscal Year 1999												Fiscal Year 2000												Fiscal Year 2001												Later
										CY 1998				Calendar Year 1999												Calendar Year 2000												Calendar Year 2001								
Cost Code	Item/Mfr/Prog Yr	U S M R V	Accep Prior to 1 Oct 1998	Bal-ance due as of 1 Oct 1998	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						
AC004	VT-NF PROJ			1998																																										
	AMCCOM	D334 97 H N	3.5	NONE					3.5																																					
	Total		3.5	NONE					3.5																																					
																																								</						

Manufacturer's Name and Location	Production Rates			Reached By
	Minimum	1-0-5	Maximum	
AC004-CMAA	7250	14500	40500	3

Procurement Lead Time				
Admin Lead Time		Menu-feeding Time		Total
Proc	After Oct	Proc	After Oct	
6	6	6	22	28
Initial				28
Reorder (Previous Source)				28

P-1 Shop List Item No. 45 Page No. 9

Remarks

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# DEFENSE

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NAVMAT FORM 7110.1	WEAPONS PROCUREMENT NAVY BUDGET ITEM JUSTIFICATION SHEET					(DOD EXHIBIT P-40)	MARCH 1996
BUDGET ACTIVITY 5 AMMUNITION	P-1 ITEM NOMENCLATURE 76MM GUN AMMUNITION						
QUANTITY		FY 95*	FY 96*	FY 97	FY 98	FY 99	FY 00
COST (in Millions \$)		13.8	6.3	2.7	3.5	3.9	5.2
							4.8

**ITEM DESCRIPTION/JUSTIFICATION:**

The 76MM caliber cartridge is a fixed round of ammunition for use in the MK 75 gun mount. Its primary use is against air targets, but it may be used against surface and shore targets. The weapon system, the MK 75 gun mount and MK 92 fire control system, has been designated for use on Guided Missile Frigates (FFG), and United States Coast Guard (USCG) ships. At the end of FY 96 there will be weapon systems installed on Guided Missile Frigates (FFG) and United States Coast Guard (USCG) ships. There are also numerous barrels located at schools and engineering test sites.

**PROCUREMENT:** The funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.

**PRODUCTION ENGINEERING:** Funds requested provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering function which are integral to an item's manufacture.

**PRODUCT IMPROVEMENT:** The requested funds provide engineering services and related effort by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.

\* In FY 1995 and FY 1996, this program is funded in Procurement Ammunition, Navy and Marine Corps BA-1.

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NAVMAT FORM 7110.1	WEAPONS PROCUREMENT NAVY BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	MARCH 1996
BUDGET ACTIVITY 5 AMMUNITION	P-1 ITEM NOMENCLATURE 76MM GUN AMMUNITION		

RENOVATION COMPONENTS: The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions.

GAUGE: These funds are required to procure the gauges and test equipments necessary to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance.

NON-STANDARD ITEMS: The non-standard line is to support procurement of ammunition training aids and initial procurements of required non type classified munition items.

All ammo procured with these funds is procured through the Conventional Ammunition Working Capital Fund (CAWCF) and the most recent CAWCF standard/non-standard price list has been used in pricing the ammo.

SECRET

(DOD EXHIBIT P-5)

MARCH 1996

• EV05 AND EV06 THIS PROGRAM IS FINDED UNDER PROCUREMENT AMMUNITION NAVY & MARINE CORP BA-1.

**EXHIBIT P-5 Weapons System Cost Analysis**

## P-1 SHOPPING LIST

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APPROPRIATION WEAPONS PROCUREMENT, NAVY				PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)		MARCH 1996	
BUDGET ACTIVITY 5 AMMUNITION		NARM CODE 526500		P-1 ITEM NOMENCLATURE 76MM GUN AMMUNITION					SUBHEAD NO. 85AF			
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL
AF001	76MM BL+P C062 FY 1995	CAAA; CRANE, IN	MIPR	AMCCOM DRSMC	Dec-94	Feb-95	Aug-96	8532	537.17	YES	NO	
AF002	76MM HE IR CTG C060 FY 1995 FY 1996	CAAA; CRANE, IN CAAA; CRANE, IN	MIPR MIPR	AMCCOM DRSMC AMCCOM DRSMC	Dec-94 Dec-95	Feb-95 Feb-96	Dec-96 Dec-97	4321 3096	1720.82 1390.86	YES YES	NO NO	
AF013	76MM MFF-HE MFF2 FY 1997	UNKNOWN	MIPR	AMCCOM DRSMC	Dec-96	Feb-97	Nov-99	1152	868.22	NO	YES	Jul-96

NOTE: All items shown are priced with available GFM.

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PRODUCTION SCHEDULE															Date													
Appropriation Weapons Procurement, Navy																												
Budget Activity 5 Other Ordnance																												
P-1 Item Nomenclature 76MM Gun Ammunition																												
Subhead No. 85AF																												
Fiscal Year 1996															Fiscal Year 1997	Fiscal Year 1998	Later											
Calendar Year 1996															Calendar Year 1997	Calendar Year 1998												
CY 1995																												
Cost Code	Item/Mfr/Prog Yr	U S / M / P / V	Accep Prior to 1 Oct 1995	Bal- ance due as of 1 Oct 1995	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
AF001	BLBP/T CTG																											
	AMCCOM CD62 95	M N	8.5	8.5																								
	Total		8.5	8.5																								

Manufacturer's Name and Location	Production Rates		Reached or
	Minimum Sust.	Maximum	
AF001-UNKNOWN	12600	25000	5

Procurement Lead Time			
Admin Lead Time		Manu- facturing Time	
Prior 1 Oct	After 1 Oct	Prior 1 Oct	After 1 Oct
6	6	17	23
Initial		6	17
Reorder (Previous Source)		6	23
P-1 Shopp List Item No		46	5

Remarks

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NAVMAT FORM 7110.1	WEAPONS PROCUREMENT NAVY BUDGET ITEM JUSTIFICATION SHEET		(DOD EXHIBIT P-40)	MARCH 1996
BUDGET ACTIVITY 5 AMMUNITION	P-1 ITEM NOMENCLATURE OTHER SHIP GUN AMMUNITION			
QUANTITY	FY 95*	FY 96*	FY 97	FY 98
COST (In Millions \$)	15.0	4.9	4.1	10.7
				11.9
				10.5

ITEM DESCRIPTION/JUSTIFICATION:

This program provides ammunition (20MM through 84MM cartridges and rockets) in support of active Navy ships, and for active and reserve ashore warfare forces including Mobile Construction Battalions (MCB), Amphibious Construction Battalion (ACB), Fleet Combat Readiness Groups, Inshore Undersea Warfare Groups, and several other type operational units.

PROCUREMENT: The funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.

PRODUCTION ENGINEERING: Funds requested provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering function which are integral to an item's manufacture.

PRODUCT IMPROVEMENT: The requested funds provide engineering services and related effort by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.

\* In FY 1995 and FY 1996, this program is funded in Procurement Ammunition, Navy and Marine Corps BA-1.

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NAVJAT FORM 7110.1	WEAPONS PROCUREMENT NAVY BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	MARCH 1996
BUDGET ACTIVITY 5 AMMUNITION	P-1 ITEM NOMENCLATURE OTHER SHIP GUN AMMUNITION		
<p><b>RENOVATION COMPONENTS:</b> The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The specific rounds to be renovated will be those with the lowest asset readiness positions.</p> <p><b>GAUGE:</b> These funds are required to procure the gauges and test equipments necessary to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p>All ammo procured with these funds is procured through the Conventional Ammunition Working Capital Fund (CAWCF) and the most recent CAWCF standard/non-standard price list has been used in pricing the ammo.</p>			

**STANDARD**

## P-1 SHOPPING LIST

**EXHIBIT P-5 Weapons System Cost Analysis**

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**WEAPONS PROCUREMENT NAVY  
BUDGET ITEM JUSTIFICATION SHEET**

MARCH 1996

**P-1 ITEM NOMENCLATURE**  
**SMALL ARMS AND LANDINGS**

## SMALL ARMS AND LANDING PARTY AMMUNITION

95*		14.1
-----	--	------

5.7

3.1

8.0

8.3

FY0	8.5
-----	-----

**FY 0**

**9.3**

This program provides ammunition in support of active Navy ships and for active and reserve ashore warfare forces including: Mobile Construction Battalions (MCB), Amphibious Construction Battalion (ACB) and Fleet Combat Readiness Groups, Inshore Undersea Warfare Groups and several other type operational units.

**PRODUCTION ENGINEERING:** Funds requested provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering function which are integral to an item's manufacture.

\* In FY 1995 and FY 1996, this program is funded in Procurement Ammunition, Navy and Marine Corps BA-1.

## P-1 SHOPPING LIST

EXHIBIT P-40 Budget Item Justification Sheet

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NAVJAG FORM 7110.1	WEAPONS PROCUREMENT NAVY BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	MARCH 1996
BUDGET ACTIVITY 5 AMMUNITION		P-1 ITEM NOMENCLATURE SMALL ARMS AND LANDING PARTY AMMUNITION	
<p><u>RENOVATION COMPONENTS:</u> The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions.</p> <p><u>GAUGE:</u> These funds are required to procure the gauges and test equipments necessary to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p><u>NON-STANDARD ITEMS:</u> The non-standard line is to support procurement of ammunition training aids and initial procurements of required non type classified munition items.</p> <p>All ammo procured with these funds is procured through the Conventional Ammunition Working Capital Fund (CAWCF) and the most recent CAWCF standard/non-standard price list has been used in pricing the ammo.</p>			

**SECRET**

\* FY 95 & FY 96 THIS PROGRAM IS FUNDED IN PROCUREMENT AMMUNITION, NAVY & MARINE CORP BA-1.

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**EXHIBIT P-5 Weapons System Cost Analysis**

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NAVJAT FORM 7110.1	WEAPONS PROCUREMENT NAVY BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)	MARCH 1996
BUDGET ACTIVITY 5 AMMUNITION	P-1 ITEM NOMENCLATURE PYROTECHNICS AND DEMOLITION MATERIAL					
QUANTITY		FY 95*	FY 96*	FY 97	FY 98	FY 99
COST (In Millions \$)		15.4	11.0	10.1	10.6	17.7
						14.6
						16.1

ITEM DESCRIPTION/JUSTIFICATION:

This program provides pyrotechnics and demolition materials for all active Naval Vessels, Amphibious and Mobile Construction Battalions, Mobile Diving and Salvage Units, Cargo Handling and Port Groups, Naval Security Groups, Fleet Composite Operational Readiness Groups (formerly Beachjumper Unit (BJU's)) and Explosive Ordnance Disposal Groups/Mobile Units/Detachments/Teams. This program also provides materials to support the Ship Shock Test Program.

Pyrotechnics are required to support the surface, air, ground, and underwater Navy requirements. These items consist of illumination, signalling, identification, and location devices using flare or smoke as the primary signalling agent. Pyrotechnics are used for training, combat exercises, submarine rescue and personnel search and rescue operations. Demolitions consist of explosive devices and accessories and are required for fleet units to perform training functions and operations/requirements. Fleet requirements are based upon CNO approved allowance lists for special needs on a case by case basis and worldwide fleet expenditure.

PROCUREMENT: The funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.

PRODUCTION/ENGINEERING: Funds requested provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering function which are integral to an item's manufacture.

\* In FY 1995 and FY 1996, this program is funded in Procurement Ammunition, Navy and Marine Corps BA-1.

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NAVJAT FORM 7110.1	WEAPONS PROCUREMENT NAVY BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	MARCH 1996
BUDGET ACTIVITY 5 AMMUNITION		P-1 ITEM NOMENCLATURE PYROTECHNICS AND DEMOLITION MATERIAL	
<p><u>PRODUCT IMPROVEMENT:</u> The requested funds provide engineering services and related efforts by the producing contractor of manufacturing installation. To extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.</p> <p><u>RENOVATION COMPONENTS:</u> The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions.</p> <p><u>GAUGE:</u> These funds are required to procure the gauges and test equipments necessary to check critical dimensions/parameters of ammunition items and their parts. This is to assure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p><u>NON-STANDARD ITEMS:</u> The non-standard line is to support procurement of ammunition training aids and initial procurements of required non type classified munition items.</p> <p>All ammo procured with these funds is procured through the Conventional Ammunition Working Capital Fund (CAWCF) and the most recent CAWCF standard/non-standard price list has been used in pricing the ammo.</p>			

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## P-1 SHOPPING LIST

**EXHIBIT P-5 Weapons System Cost Analysis**

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WEAPON SYSTEM COST ANALYSIS EXHIBIT		DATE: MARCH 96						
P-5		P-1 ITEM NOMENCLATURE/SUBHEAD						
BA-5: AMMUNITION		MINE NEUTRALIZATION DEVICES (75U4)						
TOTAL COST IN THOUSANDS OF DOLLARS								
COST CODE	ELEMENT OF COST	IDENT CODE	FY 1995		FY 1996		FY 1997	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
	<u>MINE WARFARE, N852</u>							
U4002	EXPLOSIVE LOADING			425		0	383	
U4005	MK 57 BOMBLET	A	136	2,105		0	1,799	
U4007	MP-3 DEVICE *	A		0		0	2,300	
U4830	PRODUCTION ENGINEERING			532		455	618	
U4840	QUALITY ASSURANCE			34		30	60	
U4860	ACCEPTANCE TEST & EVALUATION			425		288	680	
	TOTAL			3,521		773	5,840	
	* Kits will be procured to convert existing MP-1/MP-2 assets into MP-3 assets.							

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P-1 SHOPPING LIST

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CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT										DATE	
P-5A										MARCH 96	
P-1 ITEM NOMENCLATURE											
MINE NEUTRALIZATION DEVICES										75U4	
COST CODE	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
UJ4005	MK 57 BOMBLET FY 1995	TOLO INCORPORATED SANTA ANA, CA	OPTION	NSWC IHDIV	05/95	07/96*	136	15.5	YES	NO	
UJ4005	MK 57 BOMBLET FY 1997	TBD	C/FFP	NSWC IHDIV	03/97	04/98*	109	16.5	YES	NO	
UJ4007	MP 3 DEVICE FY 1997	TBD	C/FFP	NAVSEA	12/96	6/98	184	12.5	NO	YES	10/96
REMARKS											
* Delivery dates shown are for complete Destructor Mk 57. Final delivery includes successful completion of lot acceptance testing, explosive loading of cases and production of Firing Devices Mk 35 by NSWC, Indian Head Division.											

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P-1 SHOPPING LIST

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# TESTS

**FY 1997 BUDGET PRODUCTION SCHEDULE**  
**P-21**

**CLASSIFICATION UNCLASSIFIED**

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